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Application Number	10/049,830
Confirmation Number	6300
Filing Date	February 19, 2002
First Named Inventor	Kenji TSUKADA
Art Unit	2853
Examiner Name	Alfred E. Dudding <i>AN DO</i>
Attorney Docket Number	Q67368

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
<i>10</i>	<i>10</i>	US 5,841,454	<i>10</i>	11/24/1998	Hall et al.
<i>10</i>		US 6,536,861		03/25/2003	Usui et al.
<i>10</i>		US 6,003,966		12/21/1999	Ahn, Byung-Sun
<i>10</i>		US 5,179,389		01/12/1993	Arai et al.
<i>10</i>		US 4,570,482		02/18/1986	Murata et al.
<i>10</i>		US 5,233,369		08/03/1993	Carlotta et al.
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¹ Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A & B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

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Sheet 1 of 6

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
<i>AB</i>	<i>5</i>	US 4,329,875		05/18/82	Nolting et al.
<i>AB</i>		US 4,703,652		11/03/87	Itoh et al.
<i>AB</i>		US 6,089,686		07/18/00	Thornton et al.
<i>AB</i>		US 6,089,688		07/18/00	Froger et al.
<i>AB</i>		US 3,110,890		11/12/63	V.C. Westcott et al.
<i>AB</i>		US 5,410,518		4/25/1995	Birkett
<i>AB</i>		US 4,594,891		6/17/1986	Benz et al.
<i>AB</i>		US 6,302,527		10/16/2001	Walker
<i>AB</i>		US 6,050,669		4/18/2000	Yano et al.
<i>AB</i>		US 6,012,793		1/11/2000	Haigo
<i>AB</i>		US 5,877,997		3/2/1999	Fell
<i>AB</i>		US 4,853,718		8/1/1989	El Hatem et al.
<i>AB</i>		US 5,035,140		7/30/1991	Daniels et al.
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<i>AB</i>		US 5,675,367		10/7/1997	Scheffelin et al.
<i>AB</i>		US 3,220,258		11/30/1965	Rod
<i>AB</i>		US 4,636,814		1/13/1987	Terasawa
<i>AB</i>		US 5,473,353		12/5/1995	Soucemarianadin et al.
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		Country Code ³	Number ⁴	Kind Code ² (if known)			
<i>AB</i>		JP	58-205820		11/30/83		
<i>AB</i>		FR	2,572,519		05/02/86		
<i>AB</i>		JP	60-4820		01/11/85		
<i>AB</i>		EP	0 684 136	A2 & A3	11/29/95		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁴
<i>AB</i>		Patent Abstracts of Japan, 11020186, 04/30/99, vol. 1999, no. 4	
<i>AB</i>		Patent Abstracts of Japan, 02034353, vol. 014, no. 186	
<i>AB</i>		Patent Abstracts of Japan, 07081290, vol. 1995, no. 06	

Examiner Signature

Alfred E. Dudding

Date Considered

3/2/05

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Substitute for Form 1449 A & B/PTO <u>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</u> (use as many sheets as necessary)				<i>Complete if Known</i>	
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				Filing Date	February 19, 2002
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				Art Unit	2853
				Examiner Name	Alfred E. Dudding <i>AN DO</i>
Sheet	2	of	6	Attorney Docket Number	Q67368

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<i>10</i>		US 4,811,595		3/14/1989	Marciniak et al.
		US 4,770,038		9/13/1988	Zuckerwar et al.
		US 5,353,631		10/11/1994	Woringer et al.
		US 5,949,447		9/7/1999	Arai et al.
		US 5,774,136		6/30/1998	Barbehenn et al.
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		US 6,007,190		12/28/1999	Murray et al.
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		US 5,841,454		11/24/1998	Hall et al.
		US 6,536,861		03/25/2003	Usui et al.
		US 6,003,966		12/21/1999	Ahn, Byung-Sun
		US 5,179,389		01/12/1993	Arai et al.

Examiner Signature	<i>Alfred E. Dudding</i>	Date Considered	3/2/05
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			Application Number	10/049,830
Sheet <u>3</u> of <u>6</u>			Confirmation Number	6300
			Filing Date	February 19, 2002
			First Named Inventor	Kenji TSUKADA
			Art Unit	2853
			Examiner Name	Alfred E. Dudding <i>AN DO</i>
			Attorney Docket Number	Q67368

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<i>AD</i>	<i>3</i>	US 4,570,482		02/18/1986	Murata et al.
<i>AD</i>	<i>3</i>	US 5,233,369		08/03/1993	Carlotta et al.
<i>AD</i>	<i>3</i>	US 6,361,136		03/26/02	Watanabe et al.
<i>AD</i>	<i>3</i>	US 6,536,861		03/25/03	Usui

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁴
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
<i>AD</i>	<i>3</i>	WO	98/31548		7/23/1998	Hewlett-Packard Company	<i>3</i>
	<i>3</i>	JP	63247047		10/13/1988	Canon Inc.	<i>3</i>
	<i>3</i>	GB	2 304 898		3/26/1997	The Whitaker Corporation	<i>3</i>
	<i>3</i>	WO	98/09139		3/5/1998	The General Electric Company	<i>3</i>
	<i>3</i>	EP	0 873 873		10/28/1998	Hewlett-Packard Company	<i>3</i>
	<i>3</i>	JP	06297726		10/25/1994	Canon Inc.	<i>3</i>
	<i>3</i>	JP	62-95225		5/1/1987	Canon Inc.	<i>3</i>
	<i>3</i>	EP	0 676 624		10/11/1995	Simmonds Precision Products Inc.	<i>3</i>
	<i>3</i>	EP	0 803 364		10/29/1997	Canon Inc.	<i>3</i>
	<i>3</i>	EP	1 088 668		4/4/2001	Hewlett-Packard Company	<i>3</i>
	<i>3</i>	JP	10026549		1/27/1998	Nohken	<i>3</i>
	<i>3</i>	JP	07137276		5/30/1995	Canon Inc.	<i>3</i>
	<i>3</i>	EP	0 853 236		7/15/1998	Smiths Industries Public Limited Co.	<i>3</i>
	<i>3</i>	JP	04135862		5/11/1992	Seikosha Co. Ltd.	<i>3</i>
	<i>3</i>	JP	10-305590		11/17/1998	Matsushita Electric Co., Ltd.	<i>3</i>
	<i>3</i>	WO	99/42293		8/26/1999	Minnesota Mining & Manufacturing Co.	<i>3</i>
	<i>3</i>	EP	0 660 092		6/28/1995	Canon Inc.	<i>3</i>
	<i>3</i>	EP	0 553 535		8/4/1993	Seiko Epson Corporation	<i>3</i>
	<i>3</i>	JP	2000318183	<i>✓</i>	11/21/2000	Sony Corporation	<i>3</i>
	<i>3</i>	EP	0885731		12/23/98	Kanome	<i>3</i>
	<i>3</i>	EP	0860284	<i>✓</i>	08/26/98		<i>3</i>
<i>AD</i>	<i>3</i>	JP	10-323997	<i>✓</i>	12/08/98		<i>3</i>

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.		Translation*
		US 2002/0105555, published 8/8/2002 to Tsukada et al.		
		US 2002/0015084, published 2/7/2002.to Tsukada et al.		
		US 2002/0012015, published 1/31/2002 to Tsukada et al.		


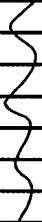

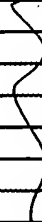











Examiner Signature	<i>Alfred E. Dudding</i>	Date Considered	<i>3/2/05</i>
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<i>AD</i>	<i>✓</i>	US 4,196,625	<i>✓</i>	04/08/80	Kern
<i>AD</i>	<i>✓</i>	US 4,310,957	<i>✓</i>	01/19/82	Sachs
<i>AD</i>	<i>✓</i>	US 4,337,470	<i>✓</i>	06/29/82	Furukawa
<i>AD</i>	<i>✓</i>	US 4,570,482	<i>✓</i>	02/18/86	Murata
<i>AD</i>	<i>✓</i>	US 4,604,633	<i>✓</i>	08/05/86	Kimura et al.
<i>AD</i>	<i>✓</i>	US 4,677,448	<i>✓</i>	06/30/87	Mizusawa et al.
<i>AD</i>	<i>✓</i>	US 4,935,751	<i>✓</i>	06/19/90	Hamlin
<i>AD</i>	<i>✓</i>	US 4,977,413	<i>✓</i>	12/11/90	Yamanaka et al.
<i>AD</i>	<i>✓</i>	US 5,068,836	<i>✓</i>	11/26/91	Steel
<i>AD</i>	<i>✓</i>	US 5,132,711	<i>✓</i>	07/21/92	Shinada et al.

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
		CN	1274845		11/29/00		
		JP	2000-43287		02/15/00		
		JP	56-39413		04/15/81	Ota	
		JP	11-10909		01/19/99		
		JP	11-277760		10/12/99		
		JP	11-334107		12/07/99	Nakamura	
		JP	4-234670		08/24/92		

NON PATENT LITERATURE DOCUMENTS			
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<i>AD</i>	<i>✓</i>	PATENT ABSTRACTS OF JAPAN, vol. 1995, no. 08, 29 September 1995 & JP 07 137276 A (Canon Inc.) 30 May 1995 abstract	<i>✓</i>
<i>AD</i>	<i>✓</i>	US 2002-0170353, November 21, 2002, US 10/191423, Usui et al.	<i>✓</i>
<i>AD</i>	<i>✓</i>	US 2003-0043216, March 6, 2003, US 10/243730, Usui et al.	<i>✓</i>
<i>AD</i>	<i>✓</i>	US 2003-0117450, June 26, 2003, Usui et al.	<i>✓</i>
<i>AD</i>	<i>✓</i>	US 2003-0117451, June 26, 2003, Usui et al.	<i>✓</i>
<i>AD</i>	<i>✓</i>	US 2003-0140694, July 31, 2003, US 09/572849, Usui et al.	<i>✓</i>
<i>AD</i>	<i>✓</i>	US 2003-0071862, US 10/019682, Tsukada et al.	<i>✓</i>

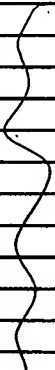
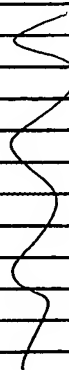
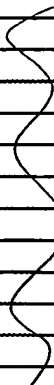
Examiner Signature	<i>Adul</i>	Date Considered	3/2/05
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<i>AS</i>	<i>~</i>	US 5,179,389		01/12/93	Arai
<i>AS</i>		US 5,233,369		08/03/93	Carlotta
<i>AS</i>		US 5,506,611		04/09/96	Ujita et al.
<i>AS</i>		US 5,610,635		03/11/97	Murray
<i>AS</i>		US 5,635,961		06/03/97	
<i>AS</i>		US 5,694,156		12/02/97	Hoisington et al.
<i>AS</i>		US 5,835,817		11/10/98	Bullock et al.
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<i>AS</i>		US 5,900,888		05/04/99	Kurosawa

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AS		JP	5-318757	✓	12/03/93		
AS		JP	8-34123		02/06/96		
AS		JP	62-184856		08/13/87		
AS		EP	0803365		10/29/97		
AS		EP	0956964	✓	11/17/99		
AS		JP	11-020162		01/28/99		
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AS		JP	59-052422	✓	04/06/84		
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AS		JP	5-025325	✓	04/02/93		
AS		JP	2000-190523	✓	07/11/00		
AS		JP	56-39414		04/15/81		

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<i>AS</i>	<i>~</i>	US 2002-0135623, September 26, 2002, Tsukada et al.	<i>~</i>
<i>AS</i>		US 2002-0015068, February 7, 2002, Tsukada et al.	

Examiner Signature	<i>AS</i>	Date Considered	3/2/05
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AUG 26 2004

MODIFIED PTO/SB/08 A & B (08-03)

Substitute for Form 1449 A & B/PTO <u>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</u> (use as many sheets as necessary)				Complete if Known	
		Application Number		10/049,830	
		Confirmation Number		6300	
		Filing Date		February 19, 2002	
		First Named Inventor		Kenji TSUKADA	
		Art Unit		2853	
		Examiner Name		Alfred E. Dudding <i>AN DO</i>	
		Attorney Docket Number		Q67368	
Sheet		6		of 6	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
<i>AD</i>	{	US 6,003,966		12/21/99	Ahn
<i>AD</i>		US 6,012,794		01/11/00	Nakano et al.
<i>AD</i>		US 6,024,429		02/15/00	Coffy et al.
<i>AD</i>		US 6,155,664		12/05/00	Cook
<i>AD</i>		US 6,254,212		07/03/01	Coudray et al.
<i>AD</i>		US 6,344,658		02/05/02	Nakagawa et al.
<i>AD</i>		US 6,347,853		02/19/02	Kato
<i>AD</i>		US 6,416,152		07/09/02	Matsuzaki et al.
<i>AD</i>		US 6,435,638		08/20/02	Wilson
<i>AD</i>		US 6,438,500		08/20/02	Froger et al.

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
AD	S	JP	56-53078		05/12/81	S	S
		JP	58-201027		11/22/83		
		JP	63-295266		12/01/88		
		JP	10-038662		02/13/98		
		JP	10-151753		06/09/98		
		JP	11-048490		02/23/99		
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		JP	9-220216		08/26/97		
		JP	9-267488		10/14/97		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶

Examiner Signature <i>Adh</i>	Date Considered <i>3/2/05</i>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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Attorney Docket Number	Q67368

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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NON PATENT LITERATURE DOCUMENTS

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		Number	Kind Code ² (if known)		
<i>AD</i>		US 3,394,589		7/30/1968	Genichiro Tomioka
		US			
		US			
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		US			
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		US			
		US			

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
<i>AD</i>		JP	7-137291		5/30/1995		

NON PATENT LITERATURE DOCUMENTS

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SURETYPE

PATENT & TRADEMARK OFFICE

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JC26 JALB

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First Named Inventor	Kenji TSUKADA
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Sheet	1	of	1
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